

January 1, 2009



**Standards by Division**

**DIVISION 200 EARTHWORK, LANDSCAPING, and EROSION CONTROL**

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STD. NO. TITLE

EARTHWORK

202001-01 Earth Median Ditch Check

EROSION CONTROL

280001-04 Temporary Erosion Control Systems

285001-02 Fabric Formed Concrete Revetment Mats

January 1, 2009



**Standards by Division**

**DIVISION 300 SUBGRADES, SUBBASES, and BASE COURSES**

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STD. NO. TITLE

BASE COURSE

353001-04 PCC Base Course with HMA Binder and Surface Courses



## Standards by Division

**DIVISION 400 SURFACE COURSES, PAVEMENTS, REHABILITATION, AND SHOULDERS**


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STD. NO. TITLE

BITUMINOUS SURFACES AND HOT-MIX ASPHALT PAVEMENTS

406001-05 Entrance Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)  
 406101-04 Exit Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)  
 406201-01 Mailbox Turnout

PORTLAND CEMENT CONCRETE PAVEMENTS AND SIDEWALKS

420001-07 Pavement Joints  
 420101-04 24' (7.2 m) Jointed PCC Pavement  
 420106-04 36' (10.8 m) Jointed PCC Pavement  
 420111-02 PCC Pavement Roundouts  
 420201-07 Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)  
 420206-08 Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)  
 420301-04 Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)  
 420306-06 Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)  
 420401-07 Bridge Approach Pavement Connector  
 420501-04 PCC Pavement and PCC Base Course Adjacent to Railroad Grade Crossing  
 420601-05 24' (7.2 m) PCC Pavement  
 420701-02 Pavement Fabric  
 421001-02 Bar Reinforcement for CRC Pavement  
 421101-07 24' (7.2 m) CRC Pavement (With Wide Flange Beam Terminal Joint)  
 421106-07 36' (10.8 m) CRC Pavement (With Wide Flange Beam Terminal Joint)  
 421201-06 24' (7.2 m) CRC Pavement (With Lug System)  
 421206-06 36' (10.8 m) CRC Pavement (With Lug System)  
 424001-05 Curb Ramps for Sidewalks

PAVEMENT REHABILITATION

442001-04 Class A Patches  
 442101-07 Class B Patches  
 442201-03 Class C and D Patches

SHOULDERS

482001-02 HMA Shoulder Adjacent to Flexible Pavement  
 482006-03 HMA Shoulder Adjacent to Rigid Pavement  
 482011-03 HMA Shoulder Strips/Shoulders With Resurfacing or Widening and Resurfacing Projects  
 483001-04 PCC Shoulder



## Standards by Division

**DIVISION 500 BRIDGES and CULVERTS**


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## STD. NO. TITLE

## BRIDGES

509001-01	Tubular Thrie Beam Retrofit Rail for Bridges
515001-03	Name Plate for Bridges

## CULVERTS

542001-02	Reinforced Concrete End Sections With Parallel Wingwalls for Pipe Culverts 300 mm (12") thru 1200 mm (48") Diameter at Right Angles With Roadway
542101-02	Reinforced Concrete End Sections for Pipe Culverts 375 mm (15") thru 900 mm (36") Diameter at Right Angles With Roadway
542106-02	Reinforced Concrete End Sections for Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter at Right Angles With Roadway
542111-02	Reinforced Concrete End Sections for Pipe Culverts, 1650 mm (66") thru 2100 mm (84") Diameter at Right Angles With Roadway
542116-02	Reinforced Concrete End Sections for Multiple (2 & 3) Pipe Culverts, 375 mm (15") thru 900 mm (36") at Right Angles With Roadway
542121-02	Reinforced Concrete End Sections for Multiple (2 & 3) Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter at Right Angles With Roadway
542201-02	Reinforced Concrete End Sections for Pipe Culverts, 375 mm (15") thru 900 mm (36") Diameter Skewed With Roadway
542206-01	Reinforced Concrete End Sections for Pipe Culverts, 1050 mm (42") thru 1500 mm (60") Diameter Skewed With Roadway
542301-02	Precast Reinforced Concrete Flared End Section
542306-02	Precast Reinforced Concrete Elliptical Flared End Section
542311-01	Grating for Concrete Flared End Section (For 600 mm (24") thru 1300 mm (54") Pipe)
542401-01	Metal End Section for Pipe Culverts
542406-01	Metal End Section for Pipe Arches
542501-02	Inlet Box Type 600 (24) A
542506-02	Inlet Box Type 600 (24) B
542511-02	Inlet Box Type 600 (24) C
542516-02	Inlet Box Type 600 (24) D
542521-02	Inlet Box Type 600 (24) E
542526-02	Inlet Box Type F, 600 mm (24")
542531-03	Inlet Box Type G, 600 mm (24")
542536-02	Inlet Box Type 900 (36) A
542541-02	Inlet Box Type 1200 (48) A
542546-01	Flush Inlet Box for Median
542601-01	Reinforced Concrete Pipe Elbow
542606-01	Reinforced Concrete Pipe Tee



## Standards by Division

**DIVISION 600 INCIDENTAL CONSTRUCTION**


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STD. NO.	TITLE
DRAINAGE RELATED ITEMS	
601001-03	Sub-Surface Drains
601101-01	Concrete Headwall for Pipe Drain
602001-01	Catch Basin, Type A
602006-02	Catch Basin, Type B
602011-01	Catch Basin, Type C
602016-01	Catch Basin, Type D
602101-02	Drainage Structures, Types 1, 2 & 3
602106-01	Drainage Structures, Types 4, 5 & 6
602301-02	Inlet, Type A
602306-02	Inlet, Type B
602401-02	Manhole, Type A
602406-03	Manhole, Type A, 1.8 m (6') Diameter
602411-01	Manhole, Type A, 2.1 m (7') Diameter
602416-01	Manhole, Type A, 2.4 m (8') Diameter
602421-01	Manhole, Type A, 2.7 m (9') Diameter
602501-01	Valve Vault, Type A
602601-02	Precast Reinforced Concrete Flat Slab Top
602701-02	Manhole Steps
604001-03	Frame and Lids, Type 1
604006-04	Frame and Grate, Type 3
604011-04	Frame and Grate, Type 3V
604016-02	Frame and Grate, Type 4
604021-02	Base, Frame and Lids, Type 5
604026-02	Frame and Grate, Type 6
604031-02	Grate, Type 7
604036-02	Grate, Type 8
604041-02	Frame and Grate, Type 9
604046-02	Frame and Grate, Type 10
604051-03	Frame and Grate, Type 11
604056-03	Frame and Grate, Type 11V
604061-02	Frame and Grate, Type 12
604066-02	Frame and Lid, Type 15
604071-04	Frame and Grate, Type 20
604076-04	Frame and Grate, Type 21
604081-04	Frames and Grates, Type 22
604086-02	Frame and Grate, Type 23
604091-02	Frame and Grate, Type 24
604101-01	Median Inlet for 600 mm (24") Reinforced Concrete Pipe

604106-01	Median Inlet for 900 mm (36") Reinforced Concrete Pipe
606001-04	Concrete Curb Type B and Combination Concrete Curb and Gutter
606006-02	Outlet for Concrete Curb and Gutter, Type B-15.60 (B-6.24)
606101-04	Type A Gutter (Inlet, Outlet, and Entrance)
606106-04	Outlet, Type I for Type A Gutter
606111-03	Outlets, Type 2 for Type A Gutter
606201-02	Type B Gutter (Inlet, Outlet, and Entrance)
606206-03	Outlet, Type 1 for Type B Gutter
606211-03	Outlets, Type 2 for Type B Gutter
606301-04	PC Concrete Islands And Medians
606306-03	Corrugated PC Concrete Medians
606401-01	Paved Ditch
609001-04	Bridge Approach Shoulder Pavement and Drain
609006-04	Bridge Approach Pavement (Drain Detail)
610001-04	Shoulder Inlet With Curb

#### SAFETY RELATED ITEMS

630001-08	Steel Plate Beam Guardrail
630101-08	Guardrail Mounted on Existing Culverts
630201-06	PCC/HMA Stabilization at Steel Plate Beam Guardrail
630301-05	Shoulder Widening for Type 1 (Special) Guardrail Terminals
631006-06	Traffic Barrier Terminal, Type 1B
631011-05	Traffic Barrier Terminal, Type 2
631026-04	Traffic Barrier Terminal, Type 5
631031-07	Traffic Barrier Terminal, Type 6
631032-04	Traffic Barrier Terminal, Type 6A
631033-03	Traffic Barrier Terminal, Type 6B
631036-05	Traffic Barrier Terminal, Type 8
631041-02	Traffic Barrier Terminal, Type 9
631046-04	Traffic Barrier Terminal, Type 10
631051-02	Traffic Barrier Terminal, Type 11
631056-02	Traffic Barrier Terminal, Type 12
635001-01	Delineators
635006-03	Reflector and Terminal Marker Placement
635011-02	Reflector Marker and Mounting Details
636001-02	Cable Road Guard Single Strand
637001-04	Concrete Barrier 815 mm (32 in.) Height
637006-02	Concrete Barrier 1065 mm (42 in.) Height
638001-02	Glare Screen Blades
638101-02	Concrete Glare Screen
639001-02	Sight Screen Precast Prestressed Concrete Panel Wall
640001-01	Sight Screen Chain Link Fence
641001-01	Sight Screen Cedar Stockade Fence Type S
641006-01	Sight Screen Wood Plank Fence Type P
642001-01	Shoulder Rumble Strips

#### OTHER ITEMS

664001-02	Chain Link Fence
665001-02	Woven Wire Fence
666001-01	Right-of-Way Markers

667001-01	Drainage Markers
667101-01	Permanent Survey Markers
668001-01	U.S. Geological Survey and National Geodetic Survey Benchmarks, Resetting Method



## Standards by Division

**DIVISION 700 WORK ZONE TRAFFIC CONTROL AND PROTECTION,  
SIGNING, AND PAVEMENT MARKING**


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STD. NO.	TITLE
WORK ZONE TRAFFIC CONTROL AND PROTECTION	
701001-02	Off-Road Operations, 2L, 2W, More Than 4.5 m (15') Away
701006-03	Off-Road Operations, 2L, 2W, 4.5 m (15') to 600 mm (24") From Pavement Edge
701011-02	Off-Road Moving Operations, 2L, 2W, Day Only
701101-02	Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24") From Pavement Edge
701106-02	Off-Road Operations, Multilane, More Than 4.5 m (15') Away
701201-03	Lane Closure, 2L, 2W, Day Only, for Speeds $\geq$ 45 MPH
701206-02	Lane Closure, 2L, 2W, Night Only, for Speeds $\geq$ 45 MPH
701301-03	Lane Closure, 2L, 2W, Short Time Operations
701306-02	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, for Speeds $\geq$ 45 MPH
701311-03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701316-04	Lane Closure, 2L, 2W, Bridge Repair, for Speeds $\geq$ 45 MPH
701321-10	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701326-03	Lane Closure, 2L, 2W, Pavement Widening, for Speeds $\geq$ 45 MPH
701331-03	Lane Closure, 2L, 2W, With Run-Around, for Speeds $\geq$ 45 MPH
701336-05	Lane Closure, 2L, 2W, Work Areas in Series, for Speeds $\geq$ 45 MPH
701400-03	Approach to Lane Closure, Freeway/Expressway
701401-05	Lane Closure, Freeway/Expressway
701402-07	Lane Closure, Freeway/Expressway, with Barrier
701406-05	Lane Closure, Freeway/Expressway, Day Operations Only
701411-05	Lane Closure, Multilane, at Entrance or Exit Ramp, for Speeds $\geq$ 45 MPH
701416-06	Lane Closure, Freeway/Expressway, with Crossover and Barrier
701421-02	Lane Closure, Multilane, Day Operations Only, for Speeds $\geq$ 45 MPH to 55 MPH
701422-02	Lane Closure, Multilane, for Speeds $\geq$ 45 MPH to 55 MPH
701423-03	Lane Closure, Multilane, with Barrier, for Speeds $\geq$ 45 MPH to 55 MPH
701426-03	Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds $\geq$ 45 MPH
701431-05	Lane Closure, Multilane, Undivided with Crossover, for Speeds $\geq$ 45 MPH to 55 MPH
701446-01	Two Lane Closure, Freeway/Expressway
701451	Ramp Closure Freeway/Expressway
701456	Partial Exit Ramp Closure Freeway/Expressway
701501-05	Urban Lane Closure, 2L, 2W, Undivided
701502-03	Urban Lane Closure, 2L, 2W, with Bidirectional Left Turn Lane
701601-06	Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
701602-04	Urban Lane Closure, Multilane, 2W with Bidirectional Left Turn Lane
701606-06	Urban Lane Closure, Multilane, 2W with Mountable Median
701701-06	Urban Lane Closure, Multilane Intersection
701801-04	Lane Closure, Multilane 1W or 2W Crosswalk or Sidewalk Closure
701901-01	Traffic Control Devices

| 704001-05 Temporary Concrete Barrier

SIGNING

| 720001-01 Sign Panel Mounting Details

| 720006-02 Sign Panel Erection Details

| 720011-01 Metal Posts for Signs, Markers and Delineators

| 720016-02 Mast Arm Mounted Street Name Signs

| 720021-02 Sign Panels, Extruded Aluminum Type

| 728001-01 Telescoping Steel Sign Support

| 729001-01 Applications of Types A and B Metal Posts (For Signs & Markers)

| 731001-01 Base for Telescoping Steel Sign Support

PAVEMENT MARKING

| 780001-02 Typical Pavement Markings

| 781001-03 Typical Applications Raised Reflective Pavement Markers

**Standards by Division****DIVISION 800 ELECTRICAL**

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## STD. NO. TITLE

## GENERAL ELECTRICAL REQUIREMENTS

805001-01 Electrical Service Installation Details

## WIREWAY AND CONDUIT SYSTEMS

814001-02 Handholes

814006-02 Double Handholes

## TRAFFIC SIGNALS - CONTROLLERS AND EQUIPMENT

857001-01 Standard Phase Designation Diagrams and Phase Sequences

857006-01 Supervised Railroad Interconnect Circuit

862001-01 Uninterruptable Power Supply (UPS)

## TRAFFIC SIGNALS - WIRE AND CABLE

873001-02 Traffic Signal Grounding &amp; Bonding

## TRAFFIC SIGNALS - POSTS AND FOUNDATIONS

876001-01 Pedestrian Push Button Post

877001-04 Steel Mast Arm Assembly and Pole 16' Through 55'

877002-01 Steel Mast Arm Assembly and Pole 56' Through 75'

877006-03 Steel Mast Arm Assembly and Pole with Dual Mast Arms

877011-04 Steel Combination Mast Arm Assembly and Pole 16' Through 55'

877012-01 Steel Combination Mast Arm Assembly and Pole 56' Through 75'

878001-07 Concrete Foundation Details

## TRAFFIC SIGNALS - SIGNAL HEADS

880001-01 Span Wire Mounted Signals and Flashing Beacon Installation

880006-1 Traffic Signal Mounting Details

## TRAFFIC SIGNALS - DETECTION

886001-01 Detector Loop Installations

886006-01 Typical Layout for Detection Loops

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**Standards by Division**

**DIVISION 000 MISCELLANEOUS TABLES**

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STD. NO.	TITLE
000001-05	Standard Symbols, Abbreviations and Patterns
001001-02	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot

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**Standards by Division**

**DIVISION BLR LOCAL ROADS**

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STD. NO.	TITLE
BLR 10-6	PCC Pavement Special
BLR 14-10	Portland Cement Concrete Pavement (Nonreinforced)
BLR 17-4	Traffic Control Devices - Day Labor Construction
BLR 18-5	Traffic Control Devices - Day Labor Maintenance
BLR 20-6	Traffic Barrier Terminal - Type 5R
BLR 21-8	Typical Application of Traffic Control Devices for Construction on Rural Local Highways
BLR 22-6	Typ. Appl. of T.C.D. for Rural Loc. Hwys. (2-Lane 2 Way Rural Traff.) (Rd. Closed to Thru Traff.)
BLR 23-3	Traffic Barrier Terminal Type 1
BLR 24-2	Mailbox Turnout for Local Roads
BLR 25-1	Type 1A Barricade for Non-NHS Routes
BLR 26-1	Steel Plate Beam Guardrail 700 mm (27 ½") Height
BLR 27-1	Traffic Barrier Terminal Type 5A